

SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH)

Trade name: **Metabond Megalene+**

Version: 1

Latest revision:

Date of issue: 14. 09. 2012

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1. Identification of the mixture and of the company/undertaking

1.1 Product identifier:

Metabond Megalene+

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: gasoline additive

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

METABOND Magyarország Kft.

H-9030 Győr, Csonkaér u. 5., Hungary

Phone / Fax: +36 96 332-738

Responsible for SDS:

METABOND Magyarország Kft.

H-9030 Győr, Csonkaér u. 5., Hungary

Phone / Fax: +36 96 332-738

E-mail: ljanos@metabond.hu

1.4 Emergency telephone number

Emergency telephone (07-15²⁰ h): +36 96 332-738 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: +36 1 476 6464, or +36 80 201 199

National Health Toxicological Information Service:

2. Hazards identification

2.1 Classification of the substance according to regulation 1999/45/EC

Human health hazards:

C (corrosive), Xn (harmful)

R 34

Causes burns.

R 40

Limited evidence of a carcinogenic effect.

R 43

May cause sensitisation by skin contact.

R 65

Harmful: may cause lung damage if swallowed.

Safety hazards:

Danger symbol not required.

Environmental hazards:

N (dangerous for the environment)

R 51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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2.2 Label elements

Product identification: Trade name: **Metabond Megalene+**

Danger symbol(s) and indication(s):

C



corrosive

Xn



harmful

Hazardous substance(s): Solvent naphtha
Ethoxylated amines
Naphthalene

The packaging must bear the inscription:

Contains Alkylamine ester. May produce an allergic reaction.

R-phrases: R 34 Causes burns.
R 40 Limited evidence of a carcinogenic effect.
R 43 May cause sensitisation by skin contact.
R 65 Harmful: may cause lung damage if swallowed.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S 1/2 Keep locked up and out of the reach of children.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately.
S 60 This material and its container must be disposed of as hazardous waste.
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Other liabilities for labelling:

Tactile warning of danger: Distribution for population

Transport classification: see section 14.

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2.3 Other hazards
no data available

3. Composition/information on ingredients

3.1 Mixtures

Chemical description: Mixture of refined mineral oils with additives.

Component(s) / Hazardous component(s):

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. % (m/m)
Solvent naphtha (petroleum), heavy arom. (C9-C16) 	265-198-5	64742-94-5	<i>67/548/EEC:</i> Xn, N <i>1272/2008/ECK:</i> Asp. Tox. 1	R 65, R 36/38, R 51/53 H304	max. 30
Hydrocarbyl amine 	polymer		<i>67/548/EEC:</i> - <i>1272/2008/EC:</i> not reported	R 52/53	max. 30
2-ethylhexanol REACH Registr.Nr.: 01-2119487289-20	203-234-3	104-76-7	<i>67/548/EEC:</i> Xn <i>1272/2008/EC:</i> Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	R 20, R 36/37/38 H332 H319 H315 H335	max. 4.7
Ethoxylated amine 	263-177-5		<i>67/548/EEC:</i> C, N <i>1272/2008/EC:</i> not reported	R 22, R 34, R 43, R 50	max. 20
4,4'-methylene bis(dibutyldithiocarbamate) 	233-593-1	10254-57-6	<i>67/548/EEC:</i> Xi <i>1272/2008/EC:</i> Eye Irrit. 2 Skin Irrit. 2	R 36/38 H319 H315	max. 4.5

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Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. % (m/m)
Naphthalene 	202-049-5	91-20-3	<i>67/548/EEC:</i> Xn, N <i>1272/2008/EC:</i> Carc. 2 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1	R 22, R 40, R 50/53 H351 H302 H400 H410	max. 2.5
Trimethyl benzene 	247-099-9		<i>67/548/EEC:</i> Xi <i>1272/2008/EC:</i> not reported	R 10, R 38	max. 1.5
Alkylamine ester 	415-880-5	779343-34-9	<i>67/548/EEC:</i> Xi, N <i>1272/2008/EC:</i> Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	R 38, R 41, R 43, R 51/53 H315 H318 H317 H400 H410	max. 0.9
1,2,4-trimethylbenzene 	202-436-9	95-63-6	<i>67/548/EEC:</i> Xn, N <i>1272/2008/EC:</i> Flam. Liq. 3 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Aquatic Chronic 2	R 10, R 20, R 36/37/38, R 51/53 H226 H332 H319 H335 H315 H411	max. 0.9

*: with exposure limit

The full text of each relevant R-, H- phrase and Hazard classes and cat. see in Section 16.

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4. First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. Keep at rest. Give oxygen in case of breathing problems. Administer artificial respiration if breathing is stopped. Call a physician.

Skin contact: Wash skin with large amounts of water, use soap. Remove contaminated clothing. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent irritation, get medical attention.

Ingestion: **Do not** induce vomiting. In case of spontaneous vomiting In case of spontaneous vomiting, the head should be turn down. Rinse mouth. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data.

4.3 Indication of any immediate medical attention and special treatment need

In case of ingestion.

5. Fire-fighting measures

Fire hazards:

See also Section 9 - flash point.

5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the mixture

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide, nitrogen oxides, various hydrocarbons and soot can be formed.

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5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.

Heating may cause bursting of closed containers.

In case of fire, keep containers cool with water spray.

If the leak or spill has not ignited, use water fog to disperse the vapours.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

All kind of ignition sources should be remove.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: Contain spilled liquid with sand, earth or other suitable absorbents. Dispose of according to local regulations.

All kind of ignition sources should be remove. Recover free liquid by pumping. Must be protected against static electricity. Contain the rest or small quantities with sand, earth or other suitable absorbents. Dispose of according to local regulations.

On water: Notify local authorities according to regulations.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

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7. Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids.

Keep away from radiant heat and open flame.

Take precautionary measures against static discharges. Use sparkless tools.

Keep container closed.

Before using the product on high temperature - ensure safe conditions - the process must be carefully consider.

Use in well-ventilated room or open air.

Avoid splashing the product.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Ensure washing facilities after working hours and before breaks. Take off contaminated or oil-soaked clothing, wash with warm water and soap.

Discard shoes and other leather articles saturated with the material.

When using do not eat, drink or smoke.

Pumping temperature: no data

Handling temperature: no data

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Keep away from heat, sparks, open flames. Protect from direct sunlight.

Store in dry, well ventilated place in tightly in original, closed containers.

Keep away strong oxidizing agents and strong bases.

Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind.

Prevent spills to environment.

Storage temperature: no data

7.3 Specific end use(s)

Gasoline additive.

8. Exposure controls / personal protection

Engineering control measures:

Adequate ventilation.

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8.1 Control parameters:

Naphthalene: TWA: 50 mg/m³ (8 hours)
1,2,4-trimethylbenzene: TWA: 100 mg/m³ (8 hours)
Mineral oil mist: TWA: 5 mg/m³; STEL: 10 mg/m³, for oil mist, vapour excluded (ACGIH).
Method of testing, recommended: NIOSH 5026

8.2 Exposure controls

Personal protection:

Respiratory protection: Breathing apparatus not required in case of adequate ventilation.
Use approved breathing apparatus if vapours, mists and aerosols are generated or recommended exposure limits are exceeded.

Hand protection: Safety gloves (EN 374) (e.g. nitrile, neoprene)
Note: Manufacturer's directions for use and the conditions of application should be observed.

Eye protection: Protective goggles.

Skin protection: Protective clothing.

Other special: no data

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: liquid
Colour: amber
Odour: characteristic, not unpleasant petroleum odour

Change in physical state:

Pour point (ISO 3016): ~40°C
Boiling point: not available

Others:

Flash point (COC) (EN ISO 2592): 75°C
Ignition point (EN ISO 2592): not available
Autoignition temperature: not available
Explosive properties: not explosive

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Oxidizing properties:	not available
Vapour pressure at 20°C:	negligible
Density at 15°C (EN ISO 12185):	>0,9
Solubility in water:	practically insoluble in water
Solubility in other solvents:	gasoline, kerosene, toluene, etc.
n-Octanol/water partition coefficient:	not available
Vapour density:	not available
Evaporation Rate:	not available
Kinematic viscosity at 40°C (EN ISO 3104):	typ. 20.5 mm ² /s
Kinematic viscosity at 25°C (EN ISO 3104):	40 mm ² /s
pH:	not applicable

9.2 Other information
no data available

10. Stability and reactivity

10.1 Reactivity:	Dangerous reactivity not known.
10.2 Chemical stability:	No decomposition if stored and handled properly.
10.3 Possibility of hazardous reactions:	See 10.5.
10.4 Conditions to avoid:	Warming, or ignition sources.
10.5 Incompatible materials:	Strong oxidizing agents, strong bases. Particularly dangerous to several substances, e.g. carbides, chlorates, fulminates, nitrates, picrates, powdered metals or other flammable materials. Attacks many metals and releases flammable hydrogen gas.
10.6 Hazardous decomposition products:	No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD ₅₀	2000-5000 mg/kg	(based on components or data of similar products)
Dermal:	LD ₅₀	> 2000 mg/kg	(based on components or data of similar products)
Inhalation:		no data	

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Acute toxicity: irritation

Skin: corrosive (based on components)

Eye: corrosive (based on components)

Respiratory or skin sensitisation: sensitising (based on components)

Chronic toxicity: no data

Repeated dose toxicity: no data

Other information, specific effects:

Carcinogen effect:

Limited evidence of a carcinogenic effect.

Mutagen effect:

not known, resp. not mutagen (based on components)

Reproduction-damaging effect:

not known, resp. no reproduction-damaging effect (based on components)

Aspiration hazard:

Harmful: may cause lung damage if swallowed.

12. Ecological information

- 12.1 Toxicity No data for the product.
- | | | | |
|--------------------|----------------------------|------------------|------------------------------------|
| Aquatic organisms: | Freshwater fish, acute: | LC ₅₀ | 1-10mg/l
(based on components) |
| | Freshwater, invertebrates: | EC ₅₀ | 1-10 mg/l
(based on components) |
| | Algae: | EC ₅₀ | < 1 mg/l
(based on components) |
- Note: *Amine, ethoxylated*: EC₅₀: 0,01-0,1 mg/l
- | | |
|-----------------|---------|
| Soil organisms: | no data |
| Plants: | no data |
- 12.2 Persistence and degradability No data available.
Biodegradability: Min. 25% of the product components are in accordance with OECD 301 moderately degradable.
- 12.3 Bioaccumulative potential Min. 25% of the product components has potential to bioconcentration.

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12.4 Mobility

Mobility in soil

Absorbs in soil.

Mobility in water:

Floats on water.

12.5 Results of PBT and vPvB assessment

Not required.

12.6 Other adverse effects

Heavy metal content:

None.

PCT, PCB and other chlorinated hydrocarbons:

None.

Environmental effects:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Water hazard class (German):

WGK 2

13. Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

EWC cod: 13 08 99*

Wastes not otherwise specified.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

EWC cod: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

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14. Transport information

Land transport:

Road/ Railway	ADR/RID:
Class:	8
Classification code:	C7
Packaging group:	III
Labels:	8
Limited quantity:	5 L
Shipping category:	3
Tunnel restriction code:	E
Hazard identification Number:	80
Dangerous for the environment:	yes
UN number:	2735
Correct technical name:	AMINES, LIQUID, CORROSIVE, N.O.S.

Waterways:

Inland waterways/ Sea transport	ADN/IMDG:
Class:	8
Packaging group:	III
Labels:	8
EmS number:	-
Marine pollutant:	yes
Dangerous for the environment:	yes
UN number:	2735
Correct technical name:	AMINES, LIQUID, CORROSIVE, N.O.S.

Air transport:

	ICAO / IATA:
Class:	8
Packaging group:	III
Labels:	8
Dangerous for the environment:	yes
UN number:	2735
Correct technical name:	AMINES, LIQUID, CORROSIVE, N.O.S.

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15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture.
This safety data sheet has been prepared according to Regulation 1907/2006/EC (mod.: 453/2010/EC).
- 15.2 Chemical safety assessment.
not available

16. Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Source of data presented in this material safety data sheet:

- Test results of this product
- Material safety data sheets of product's components
- Hungarian and EU lists of dangerous substances
- Relevant Hungarian regulation and EU directives

Classification of the mixture according to regulation 1272/2008/EC

Hazard Class and Category: Hazard statement:

not available

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The full text of each relevant R-, H- phrase and Hazard classes and cat. in Section 3.:

R 10	Flammable.
R 20	Harmful by inhalation.
R 22	Harmful if swallowed.
R 34	Causes burns.
R 36/38	Irritating to eyes and skin.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 38	Irritating to skin.
R 40	Limited evidence of a carcinogenic effect.
R 41	Risk of serious damage to eyes.
R 43	May cause sensitisation by skin contact.
R 50	Very toxic to aquatic organisms.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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Flam. Liq. 3	Flammable liquid Category 3
Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Sens. 1	Respiratory/skin sensitization Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Carc. 2	Carcinogenicity Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2

Revision Indicators:

Section	Subject of change	Date	Version